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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/668,555	09/22/2003	Ray-Hua Horng	13942 B	2908
7590 08/27/2009 Charles E. Baxley, Esquire 90 John Street			EXAMINER	
			BLUM, DAVID S	
Suite 309 New York, NY 10038			ART UNIT	PAPER NUMBER
		•	2813	
			MAIL DATE	DELIVERY MODE
			08/27/2009	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

•	Application No.	Applicant(s)				
Office Action Comments	10/668,555	HORNG ET AL.				
Office Action Summary	Examiner	Art Unit				
	JENNIFER M. DOLAN	2813				
 The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply 						
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period w - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing eamed patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION (6(a). In no event, however, may a reply be tim till apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE!	N. nely filed the mailing date of this communication. D (35 U.S.C. § 133).				
Status						
1) Responsive to communication(s) filed on 25 Octo 2a) This action is FINAL . 2b) This 3) Since this application is in condition for allowant closed in accordance with the practice under Expression in the condition for allowant closed in accordance with the practice under Expression in the condition for allowant closed in accordance with the practice under Expression in the condition for allowant closed in accordance with the practice under Expression in the condition in the	action is non-final. ce except for formal matters, pro					
Disposition of Claims						
4) Claim(s) 1-13 and 15 is/are pending in the appl 4a) Of the above claim(s) 1-12 is/are withdrawn 5) Claim(s) is/are allowed. 6) Claim(s) 13 and 15 is/are rejected. 7) Claim(s) is/are objected to. 8) Claim(s) are subject to restriction and/or	from consideration.					
Application Papers						
9) The specification is objected to by the Examiner 10) The drawing(s) filed on 22 September 2003 is/a Applicant may not request that any objection to the d Replacement drawing sheet(s) including the correction 11) The oath or declaration is objected to by the Examiner	re: a)⊠ accepted or b)□ object frawing(s) be held in abeyance. See on is required if the drawing(s) is obj	e 37 CFR 1.85(a). ected to. See 37 CFR 1.121(d).				
Priority under 35 U.S.C. § 119	·					
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 						
Attachment(s)	_					
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date	4) Interview Summary (Paper No(s)/Mail Da 5) Notice of Informal Pa 6) Other:	te				

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DETAILED ACTION

Continued Examination Under 37 CFR 1.114

1. A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on 25 October 2007 has been entered.

Claim Rejections - 35 USC § 103

- 2. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 3. Claims 13 and 15 are rejected under 35 U.S.C. 103(a) as being unpatentable over U.S. Patent Publication No. 2003/0231683 to Chua et al. in view of Japanese Patent Publication No. 08-250804 to Kawasaki.

Chua discloses a light emitting diode (see paragraphs 0003, 0029) having a plated substrate (146; paragraph 0058) and a mirror (142, paragraph 0057), comprising: an LED epitaxial structure sequentially comprising: a second cladding layer (108), an active layer (110 and 112), a first cladding layer (114), a window and a metal contact layer (see paragraph 0039, noting that additional AlGaN cladding layers may be added to layer 114, the additional layers

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functioning as a window – i.e., letting light pass, as well as an ohmic contact material), wherein the second cladding layer is partially exposed (see figure 4), wherein the active layer is made from InGaN (paragraph 0037), noting that InGaN is the claimed Ga_xAl_yIn_{1-x-y}N with y=0; a first electrode (126) formed on the metal contact layer; a second electrode (124) formed on the exposed second cladding layer; a mirror (142; paragraph 0057) formed beneath the LED epitaxial structure (figure 4); and a permanent metal substrate (146; paragraph 0058) plated beneath the mirror, wherein the mirror is made from Al (see paragraph 0057, noting that the metal termination layer can be considered to be the mirror layer). Chua further teaches a transparent conductive film (118; paragraph 0040) between the first electrode and the metal contact layer (figure 4).

Chua fails to teach selectively plating the substrate material so as to leave the sawing streets bare.

Kawasaki teaches that it is desirable to selectively plate submount metals for a light emitting device assembly, such that the cleaving streets are not plated upon (see paragraphs 0007, 0015).

It would have been obvious to one of ordinary skill in the art at the time the invention was made to modify the method of Chua, such that the scribing streets are not plated upon, as suggested by Kawasaki. The rationale is as follows: A person having ordinary skill in the art would have been motivated to leave the scribing streets bare, in order to ensure that cleaving need not occur through the plated metal substrate, and thus prevent a poor cleave (see Kawasaki, paragraphs 0007, 0015).

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Response to Arguments

4. Applicant's arguments filed 25 October 2007, with respect to the rejection of claims 13 and 15 under 35 U.S.C. 112 second paragraph have been fully considered and are persuasive. Therefore, the rejection has been withdrawn. However, upon further consideration, a new ground of rejection is made in view of the Chua et al. and Kawasaki references.

Conclusion

- The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.
 - a. US 6,649,437 to Yang et al. teaches a LED structure including an electroplated metal substrate and a metal mirror underlying the LED structure.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Jennifer M. Dolan whose telephone number is (571)272-1690.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Carl W. Whitehead, Jr. can be reached on (571)272-1702. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Jennifer M Dolan Examiner Art Unit 2813 /Carl Whitehead Jr./
Supervisory Patent Examiner, Art Unit 2813

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JMD